Datasheet

LuxaLight Industrial LED Fixture Quartz Glass UV-B/C 3535 60° 26.6x23.5mm (24 Volt, 3535, IP64)

LF-24-UVC-26.6x23.5-QG

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Product description

Our advanced UV-C LED engine offers three separately controllable wavelengths: 265 nm, 275 nm, and 300 nm. This versatility makes the product ideal for research and R&D applications, where precision and flexibility are crucial. The LED engine is housed in a robust industrial casing with high-quality quartz glass, providing a powerful solution for a wide range of industrial and research-related applications. This LED engine is specifically designed to meet the demanding requirements of the industry, offering a range of unique benefits:

Three Separately Controllable Wavelengths for Research and R&D: The LED engine provides three wavelengths of 265 nm, 275 nm, and 300 nm, which can be independently controlled for various research purposes. This flexibility makes it an ideal choice for applications requiring specific UV light wavelengths for sterilization, disinfection, or photochemical reactions.

Stroboscopic Pulse Function: Thanks to the innovative strobing pulse technology, we can generate radiation with higher peak intensity. This technique enhances efficiency in processes that are sensitive to short light pulses. The ability to emit rapid, repetitive pulses increases effectiveness in applications such as surface treatment, cleaning, or material processing. This functionality is fully supported when integrated with the Manima Pollux Industry system, allowing for precise control and optimization of pulse intensity to maximize performance.

Increased Radiation Capacity: When integrated with the Manima Pollux Industry system, our LED engine achieves a radiation capacity that significantly exceeds conventional systems. This offers advantages such as accelerated reactions, improved industrial machine performance, and more precise control over treatment parameters.

Industrial Housing with Quartz Glass: The LED engine is securely housed in an industrial casing, ensuring durability and protection in demanding industrial environments. The high-quality quartz glass window ensures optimal transmission of UV light while being resistant to the harsh conditions of industrial use, making it ideal for applications in challenging environments.

Reliable Performance and Long Lifespan: The robust construction of the LED engine ensures reliable performance even in harsh industrial conditions. The long lifespan of the LEDs reduces the need for frequent replacements and minimizes downtime, contributing to higher operational efficiency and lower maintenance costs.

Energy Efficiency and Sustainability: Our technology is designed with a focus on energy efficiency, reducing operational costs while maintaining optimized energy output. This makes it a sustainable choice for industrial applications that aim to minimize energy consumption and environmental impact.

Built-in NTC Sensor: The product comes equipped with a standard NTC (Negative Temperature Coefficient) sensor for precise temperature control, ensuring the system operates within optimal temperature ranges for maximum performance.

Real-Time Monitoring and Maximum Radiation: When used in combination with the Manima Pollux Industry system, real-time monitoring allows for the maximum radiation output from the UV LED fixture to be achieved. This integration ensures precise control, enabling the system to operate at peak efficiency under varying conditions.

The combination of three separately controllable wavelengths (265 nm, 275 nm, and 300 nm), industrial housing with quartz glass, stroboscopic pulse function, and real-time monitoring provides an unparalleled solution for applications requiring precision, power, and efficiency.

Applications:

- Sterilization and disinfection of industrial surfaces
- Chemical processes and photochemical reactions
- Material processing and surface treatment
- Research and R&D work with different wavelengths
- Enhancement of industrial production systems through increased radiation

Technical specifications

General	
Brand	LuxaLight
Application	Disinfection
LED type	3535
Material	Aluminum
Dimensions	220 × 26,6 × 23,5 mm
Mounting	Surface mounted
LEDs per piece	54.00
Lighting	
Wave length	265nm - 275nm - 300nm
Beam angle	60 °
Measurement results	
	• By combining Pulse Mode with Real-Time Monitoring, the efficiency of LED systems can be increased, resulting in higher output. • We have the expertise and equipment to perform measurements tailored to the specific requirements of the application.
Electronics	
Working voltage	24V
Current per piece	1.55 A / piece
Power consumption per piece	37.20 W / piece
PCB material	Aluminium
Pinout	

Symbol	Function
V+	V+
GND	Ground
NTC	NTC sensor
NTC_GND	NTC ground

Environmental	
Operating temperature	-20 ~ +60 °C
Storage temperature	-40 ~ +80 °C
Directives - standards - certificates	
Directives	RoHS CE
Safety standards	EN60598-1 EN62031 IEC62471

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catalogue are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult LuxaLight for the latest dimensions and design specifications.

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